2012 AOF Test Check Program
Monthly Report
Round 11
November 2012

01/11/2012 – 31/11/2012

Result Receival Dates

Lab Code	Date
A	07/11/2012
B	30/11/2012
C	18/12/2012
D	12/12/2012
E	14/11/2012
F	26/11/2012
G	30/11/2012
H	30/11/2012
I	22/11/2012
J	19/11/2012
K	16/11/2012
L	N/A
M	30/11/2012
N	17/11/2012

Discussion of Results

Test Weight

Sample 1 – No outliers were observed.

Sample 2 – One outlier was identified for Lab **C** with a 0.17 percent discrepancy from the upper (68.23%) quartile limit.

Sample 3 – No outliers were observed.

Impurities

Sample 1 – Outliers were identified for Lab **D** and **K**. Lab D results were 0.09 of a percent discrepancy from the upper (3.33%) quartile limit. Lab K results were 0.03 of a percent discrepancy from the lower (2.33%) quartile limit.

Sample 2 – No outliers were observed.

Sample 3 – No outliers were observed.

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Oil Rapid

Sample 1 – One outlier was identified for Lab **D** with a 0.25 percent discrepancy from the upper (43.41%) quartile limit.

Sample 2 – One outlier was identified for Lab **D** with a 0.16 percent discrepancy from the upper (44.50%) quartile limit.

Sample 3 – One outlier was identified for Lab **D** with a 0.50 percent discrepancy from the upper (48.54%) quartile limit.

Oil Solvent (ISO 659)

No Outliers were identified for this test method. However, the number of participants has limited the statistical strength. A direct comparison between the participants can be made utilising the reproducibility limit for the ISO 659-2009 stated at 1.54% variability, between results.

Considering the reproducibility of this test, participants have published results within a tolerance of each other.

Oil Solvent Reference (AOCS Method Am 2-93 - FOSFA)

Sample 1 – One outlier was identified for Lab **G** with a 2.77 percent discrepancy from the lower (40.98%) quartile limit.

Sample 2 – Outliers were identified for Lab **G** and **N**. Lab G results were 1.62 of a percent discrepancy from the upper (43.27%) quartile limit. Lab N results were 0.42 of a percent discrepancy from the lower (44.43%) quartile limit.

Sample 3 – No outliers were observed.

Moisture Oven

Sample 1 – No outliers were observed.

Sample 2 – Outliers were identified for Lab **E** and **I**. Lab E results were 0.14 of a percent discrepancy from the upper (5.45%) quartile limit. Lab I results were 0.10 of a percent discrepancy from the lower (6.12%) quartile limit.

Sample 3 – No outliers were observed.

Moisture Rapid

No outliers were observed for this test.

Oleic Oil

Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – Outliers were identified for Lab **B** and **H**. Lab B results were 0.02 of a percent discrepancy from the lower (63.19%) quartile limit. Lab H results were 1.30 of a percent discrepancy from the upper (66.95%) quartile limit.

Linoleic Oil

Sample 1 – No outliers were observed.

Sample 2 – No outliers were observed.

Sample 3 – One outlier was identified for Lab **H** with a 0.02 percent discrepancy from the lower (17.82%) quartile limit.

Free Fatty Acid

Sample 1 – No outliers were observed.

Sample 2 – One outlier was identified for Lab **E** with a 0.01 percent discrepancy from the upper (0.75%) quartile limit.

Sample 3 – No outliers were observed.

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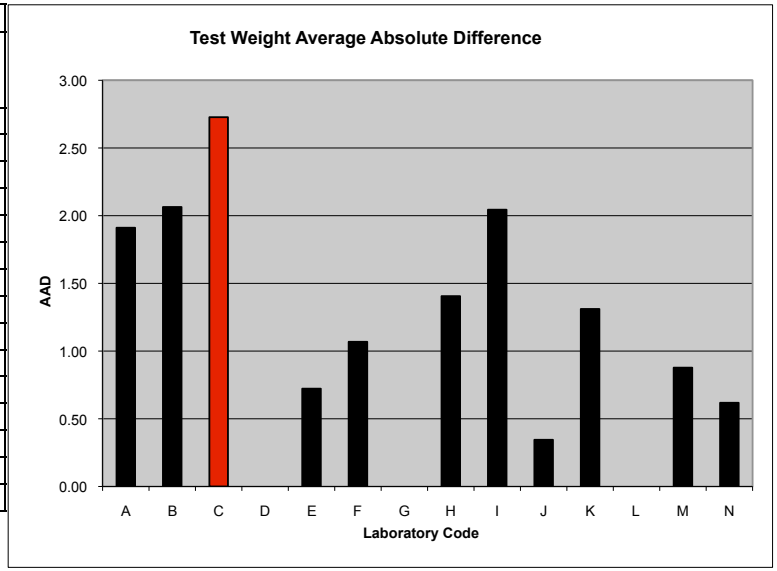
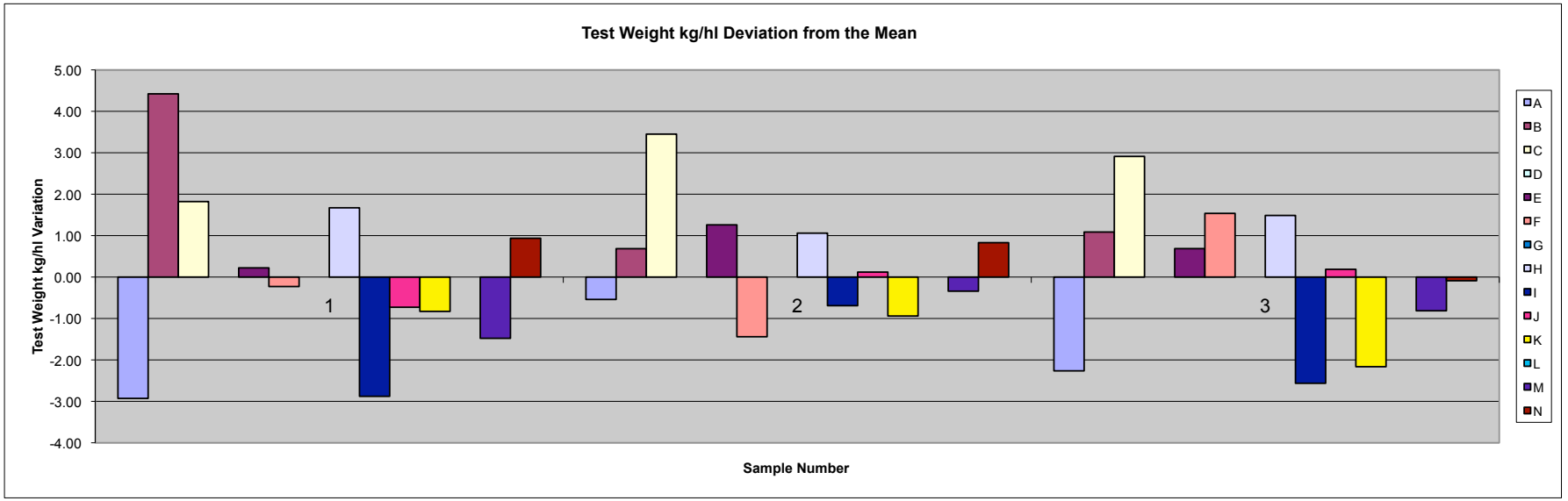
Test Weight kg/hl								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	57.90	-2.93	64.40	-0.54	63.90	-2.26	-1.91	1.91
B	65.25	4.42	65.63	0.68	67.25	1.09	2.06	2.06
C	62.65	1.82	68.39	3.45	69.08	2.91	2.73	2.73
D								
E	61.05	0.22	66.20	1.26	66.85	0.69	0.72	0.72
F	60.60	-0.23	63.50	-1.44	67.70	1.54	-0.04	1.07
G								
H	62.50	1.67	66.00	1.06	67.65	1.49	1.41	1.41
I	57.95	-2.88	64.25	-0.69	63.60	-2.56	-2.04	2.04
J	60.10	-0.73	65.06	0.12	66.35	0.19	-0.14	0.34
K	60.00	-0.83	64.00	-0.94	64.00	-2.16	-1.31	1.31
L								
M	59.35	-1.48	64.60	-0.34	65.35	-0.81	-0.88	0.88
N	61.77	0.94	65.77	0.83	66.08	-0.09	0.56	0.62
MEAN	**60.83**		**64.94**		**66.16**			**1.37**
STDEV	**2.17**		**0.93**		**1.78**			





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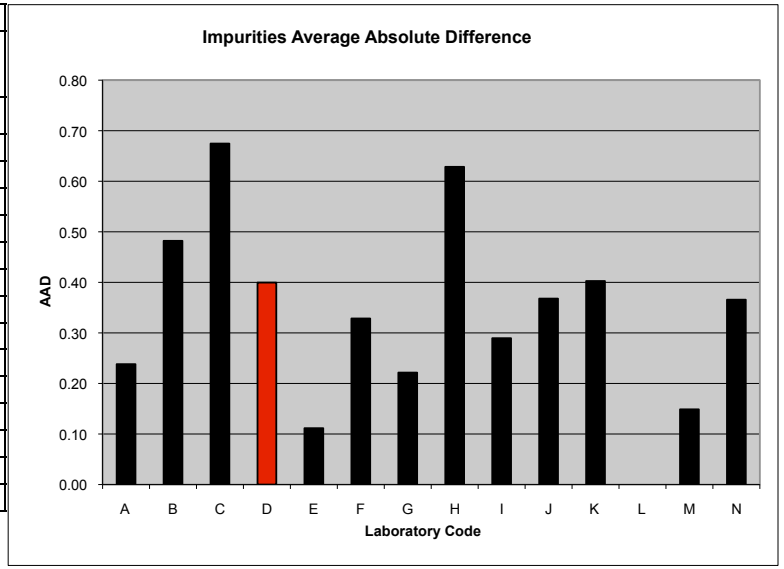
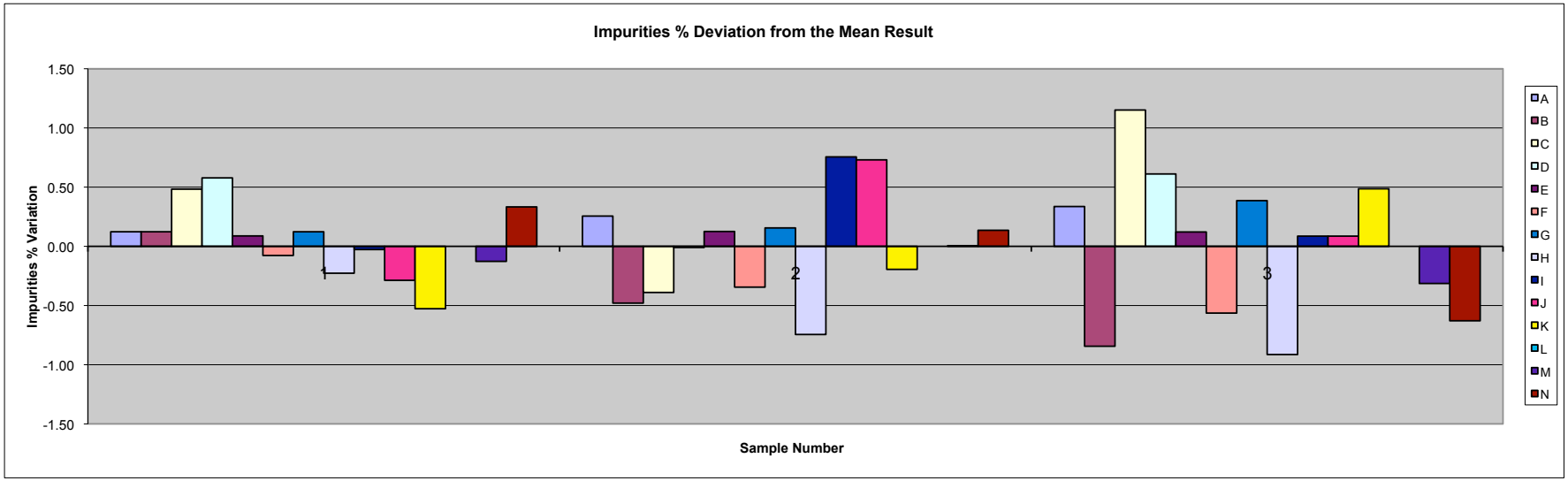
Impurities %								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	2.95	0.12	1.85	0.26	2.40	0.34	0.24	0.24
B	2.95	0.12	1.12	-0.48	1.22	-0.84	-0.40	0.48
C	3.31	0.48	1.21	-0.39	3.22	1.15	0.41	0.67
D	3.41	0.58	1.59	-0.01	2.68	0.61	0.39	0.40
E	2.92	0.09	1.72	0.13	2.19	0.12	0.11	0.11
F	2.75	-0.08	1.25	-0.34	1.50	-0.56	-0.33	0.33
G	2.95	0.12	1.75	0.16	2.45	0.39	0.22	0.22
H	2.60	-0.23	0.85	-0.74	1.15	-0.91	-0.63	0.63
I	2.80	-0.03	2.35	0.76	2.15	0.09	0.27	0.29
J	2.54	-0.29	2.33	0.73	2.15	0.09	0.18	0.37
K	2.30	-0.53	1.40	-0.19	2.55	0.49	-0.08	0.40
L								
M	2.70	-0.13	1.60	0.01	1.75	-0.31	-0.15	0.15
N	3.16	0.33	1.73	0.14	1.44	-0.63	-0.05	0.37
MEAN	**2.83**		**1.59**		**2.06**			**0.36**
STDEV	**0.27**		**0.44**		**0.62**			





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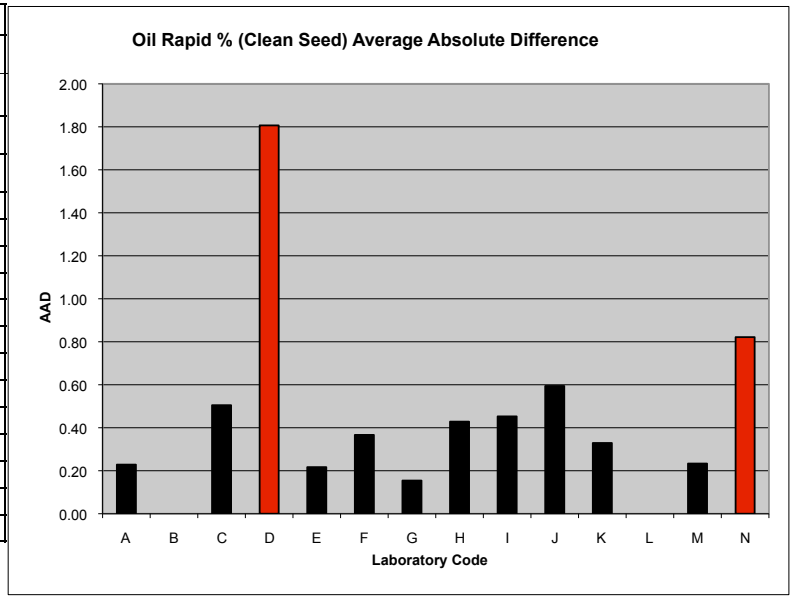
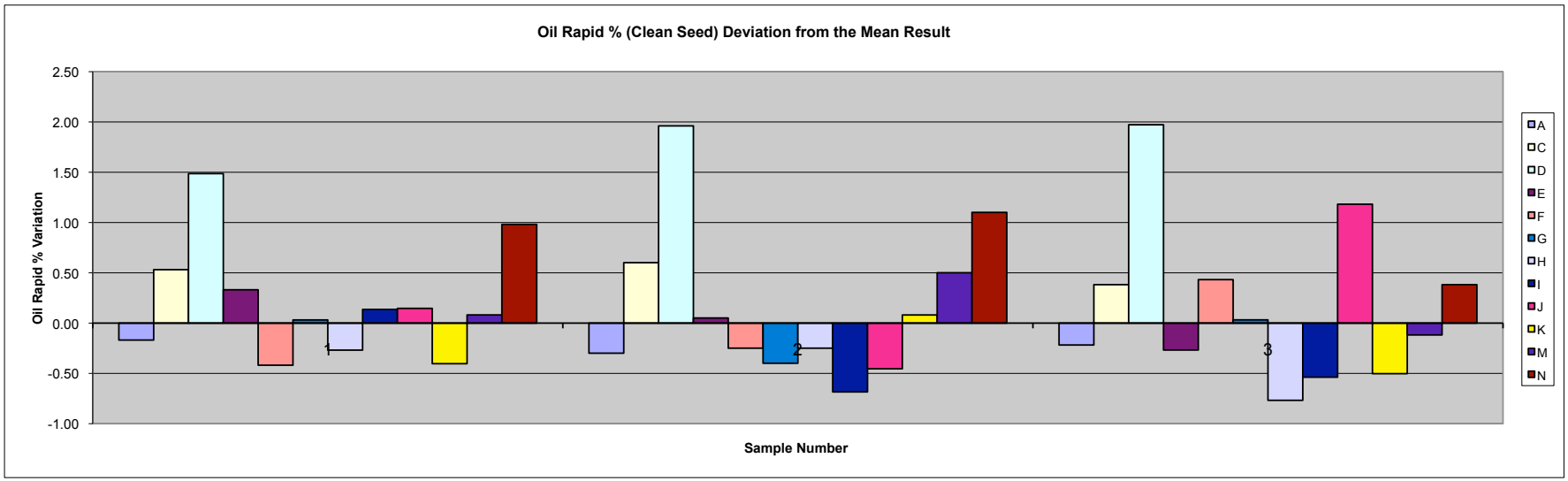
Oil Rapid % (Clean Seed) Deviation from the Mean								
	Sample 1		Sample 2		Sample 3			Average
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean	Mean of Differences	Absolute Difference
A	42.00	-0.17	42.40	-0.30	46.85	-0.22	-0.23	0.23
B								
C	42.70	0.53	43.30	0.60	47.45	0.38	0.50	0.50
D	43.66	1.49	44.66	1.96	49.04	1.97	1.81	1.81
E	42.50	0.33	42.75	0.05	46.80	-0.27	0.04	0.22
F	41.75	-0.42	42.45	-0.25	47.50	0.43	-0.08	0.37
G	42.20	0.03	42.30	-0.40	47.10	0.03	-0.11	0.15
H	41.90	-0.27	42.45	-0.25	46.30	-0.77	-0.43	0.43
I	42.31	0.14	42.02	-0.68	46.53	-0.54	-0.36	0.45
J	42.32	0.15	42.25	-0.45	48.25	1.18	0.29	0.59
K	41.77	-0.40	42.78	0.08	46.57	-0.50	-0.28	0.33
L								
M	42.25	0.08	43.20	0.50	46.95	-0.12	0.15	0.23
N	43.15	0.98	43.80	1.10	47.45	0.38	0.82	0.82
MEAN	**42.17**		**42.70**		**47.07**			**0.51**
STDEV	**0.31**		**0.54**		**0.56**			





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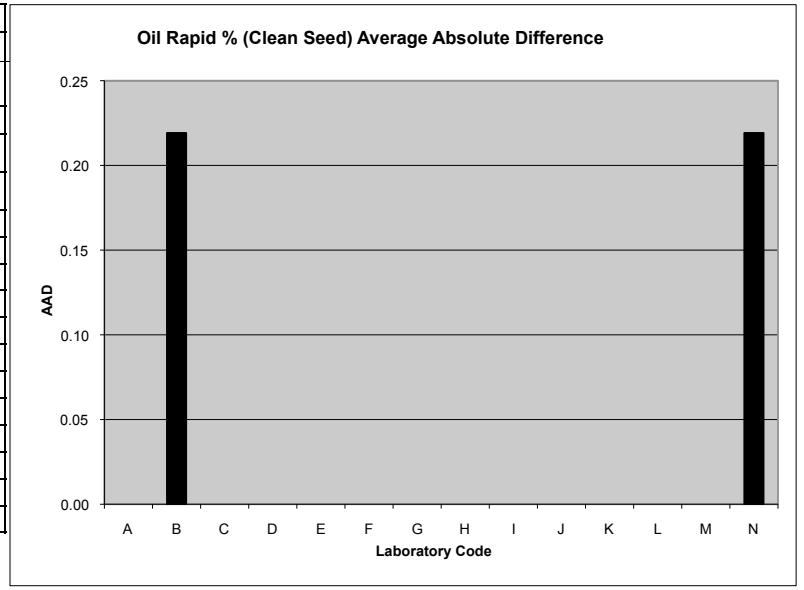
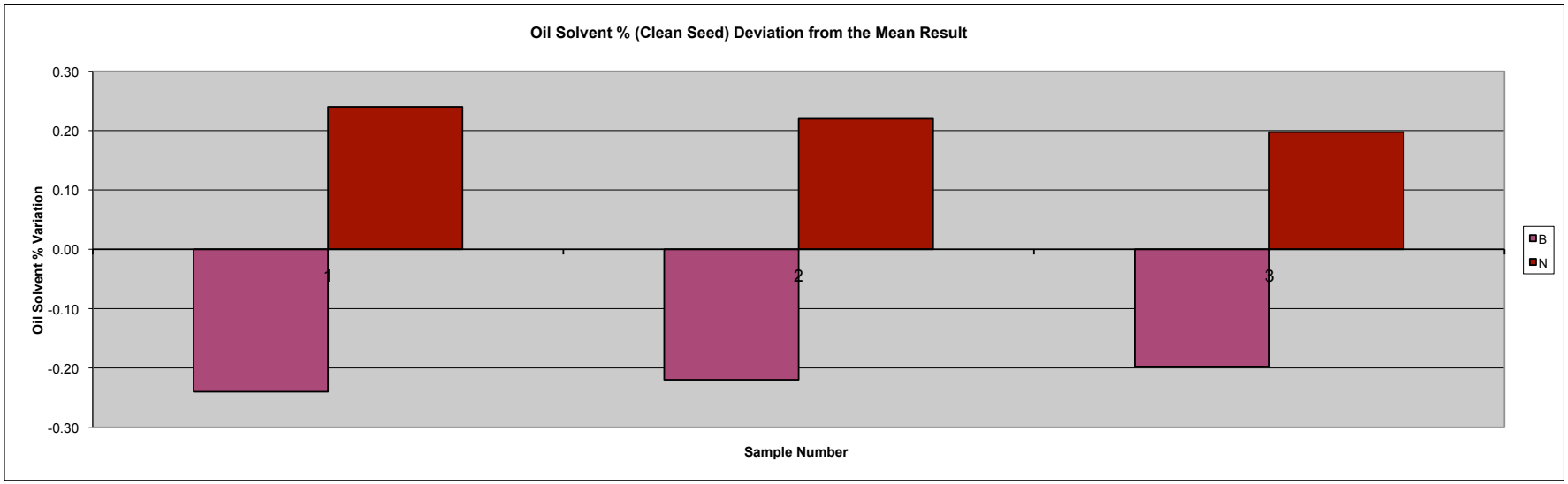
Oil Solvent % (Clean Seed) - ISO Deviation from the Mean								
	Sample 1		Sample 2		Sample 3			Average
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean	Mean of Differences	Absolute Difference
A								
B	43.03	-0.24	43.56	-0.22	47.82	-0.20	-0.22	0.22
C								
D								
E								
F								
G								
H								
I								
J								
K								
L								
M								
N	43.51	0.24	44.00	0.22	48.21	0.20	0.22	0.22
MEAN	**43.27**		**43.78**		**48.01**			**0.22**
STDEV	**0.34**		**0.31**		**0.28**			





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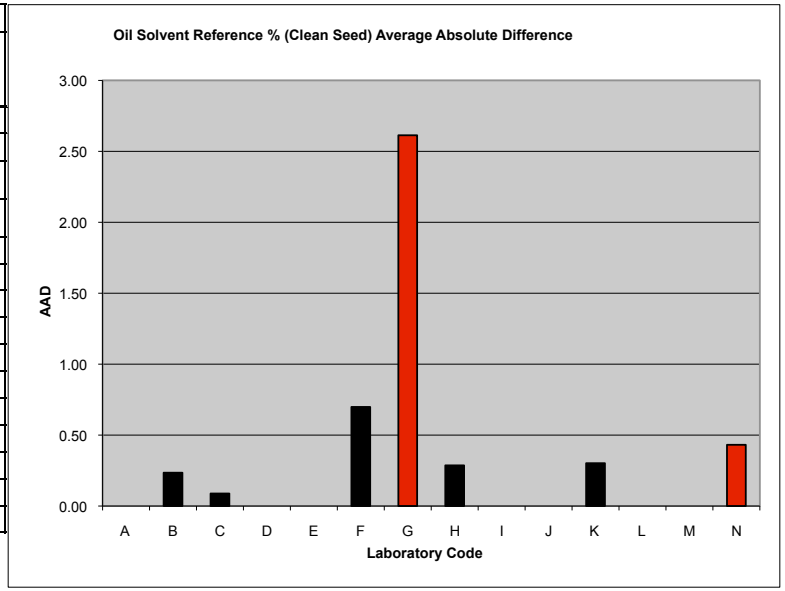
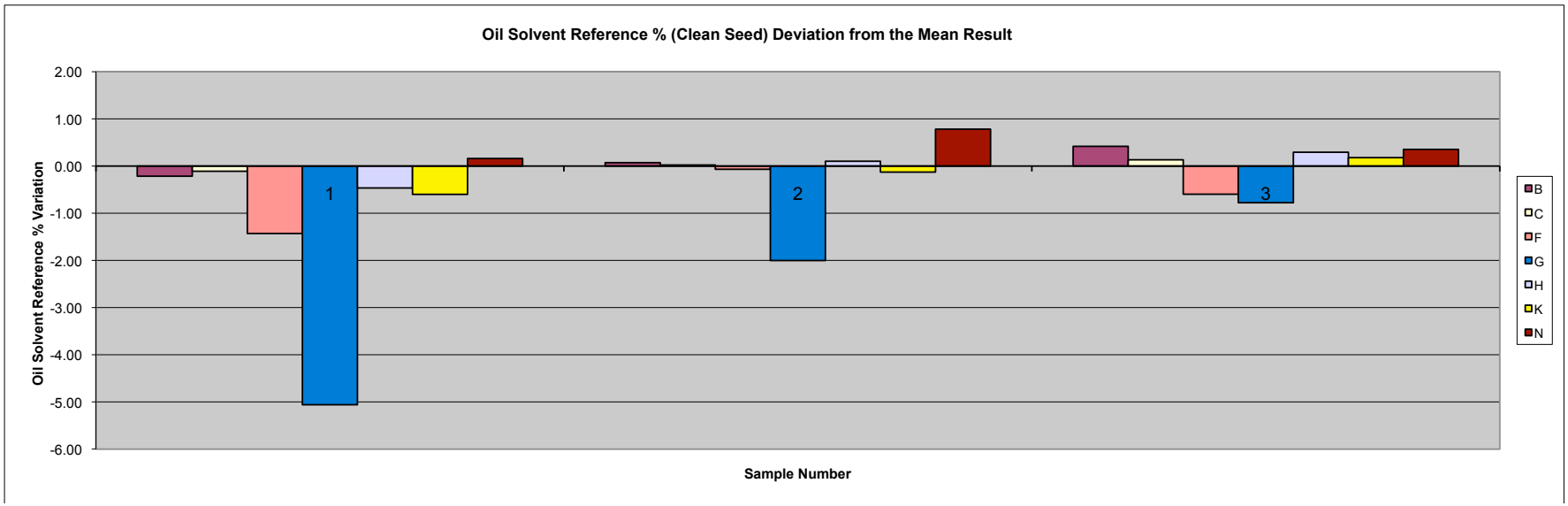
FOSFA % (Clean Seed) Deviation from the Mean								
	Sample 1		Sample 2		Sample 3			
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean	Mean of Differences	Average Absolute Difference
A								
B	43.05	-0.22	43.72	0.07	47.88	0.42	0.09	0.23
C	43.16	-0.11	43.67	0.02	47.59	0.13	0.01	0.09
D								
E								
F	41.84	-1.43	43.58	-0.07	46.86	-0.60	-0.70	0.70
G	38.21	-5.06	41.65	-2.00	46.68	-0.78	-2.61	2.61
H	42.80	-0.47	43.75	0.10	47.75	0.29	-0.02	0.29
I								
J								
K	42.67	-0.60	43.52	-0.13	47.64	0.18	-0.18	0.30
L								
M								
N	43.43	0.16	44.43	0.78	47.81	0.35	0.43	0.43
MEAN	**42.82**		**43.65**		**47.46**			**0.67**
STDEV	**0.55**		**0.10**		**0.48**			





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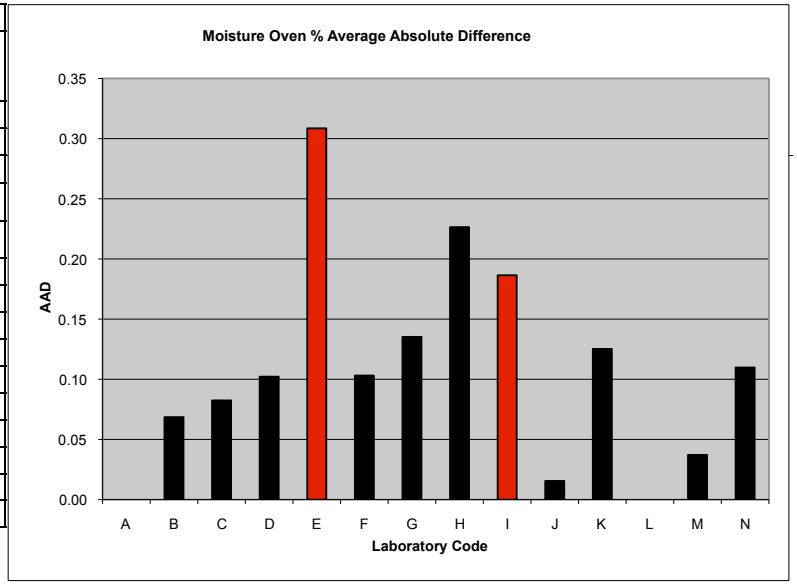
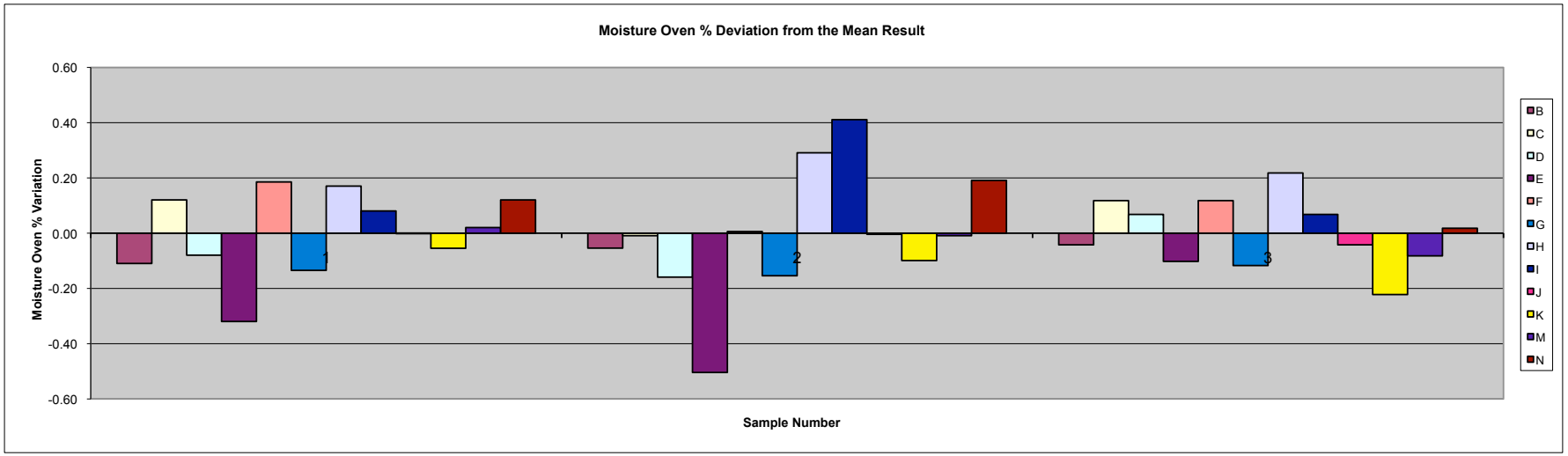
Moisture Oven % Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	6.27	-0.11	5.76	-0.05	6.14	-0.04	-0.07	0.07
C	6.50	0.12	5.80	-0.01	6.30	0.12	0.08	0.08
D	6.30	-0.08	5.65	-0.16	6.25	0.07	-0.06	0.10
E	6.06	-0.32	5.31	-0.50	6.08	-0.10	-0.31	0.31
F	6.57	0.19	5.82	0.01	6.30	0.12	0.10	0.10
G	6.25	-0.13	5.66	-0.15	6.07	-0.12	-0.14	0.14
H	6.55	0.17	6.10	0.29	6.40	0.22	0.23	0.23
I	6.46	0.08	6.22	0.41	6.25	0.07	0.19	0.19
J	6.38	0.00	5.81	0.00	6.14	-0.04	-0.02	0.02
K	6.33	-0.05	5.71	-0.10	5.96	-0.22	-0.13	0.13
L								
M	6.40	0.02	5.80	-0.01	6.10	-0.08	-0.02	0.04
N	6.50	0.12	6.00	0.19	6.20	0.02	0.11	0.11
MEAN	6.38		5.81		6.18			0.13
STDEV	0.15		0.14		0.12			





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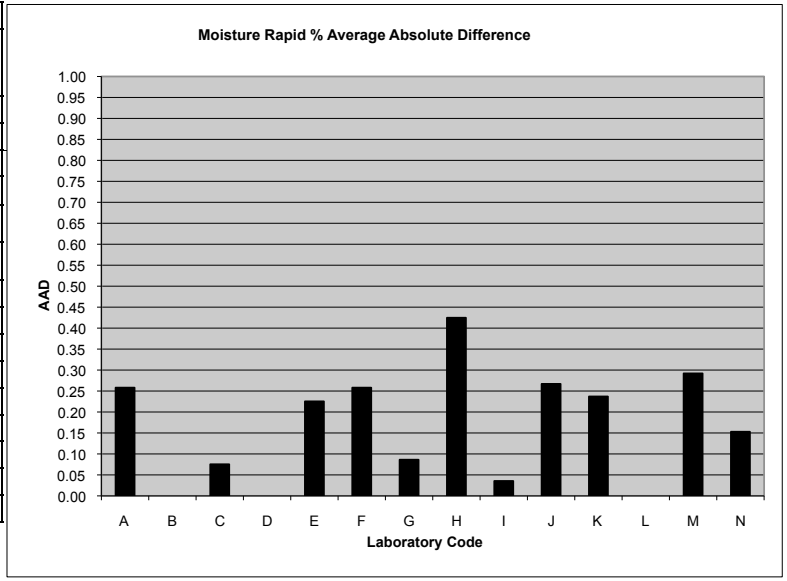
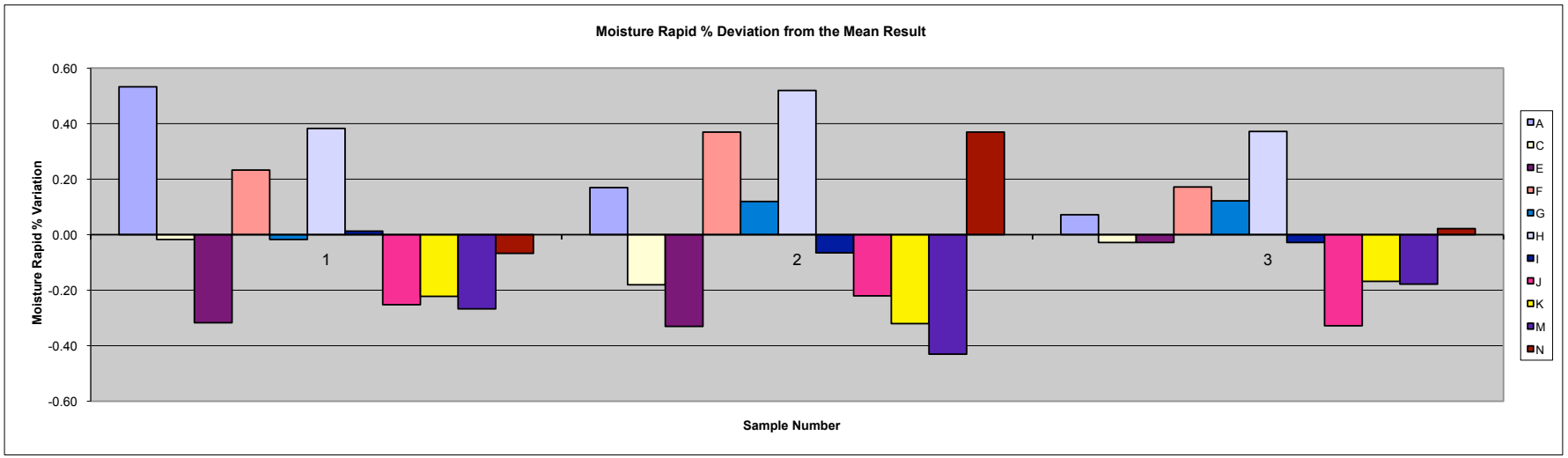
Moisture Rapid % Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A	6.85	0.53	5.85	0.17	6.05	0.07	0.26	0.26
B								
C	6.30	-0.02	5.50	-0.18	5.95	-0.03	-0.08	0.08
D								
E	6.00	-0.32	5.35	-0.33	5.95	-0.03	-0.23	0.23
F	6.55	0.23	6.05	0.37	6.15	0.17	0.26	0.26
G	6.30	-0.02	5.80	0.12	6.10	0.12	0.07	0.09
H	6.70	0.38	6.20	0.52	6.35	0.37	0.42	0.42
I	6.33	0.01	5.62	-0.07	5.95	-0.03	-0.03	0.04
J	6.07	-0.25	5.46	-0.22	5.65	-0.33	-0.27	0.27
K	6.10	-0.22	5.36	-0.32	5.81	-0.17	-0.24	0.24
L								
M	6.05	-0.27	5.25	-0.43	5.80	-0.18	-0.29	0.29
N	6.25	-0.07	6.05	0.37	6.00	0.02	0.11	0.15
MEAN	**6.32**		**5.68**		**5.98**			**0.21**
STDEV	**0.28**		**0.33**		**0.19**			





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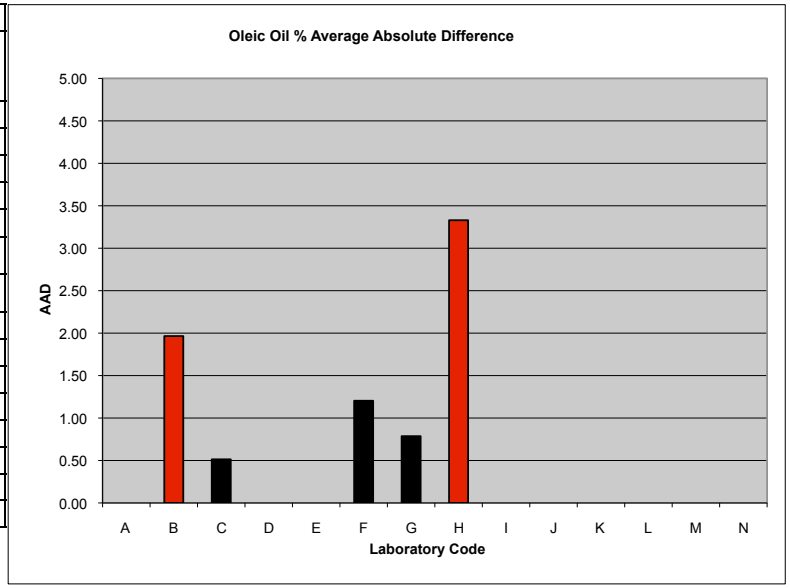
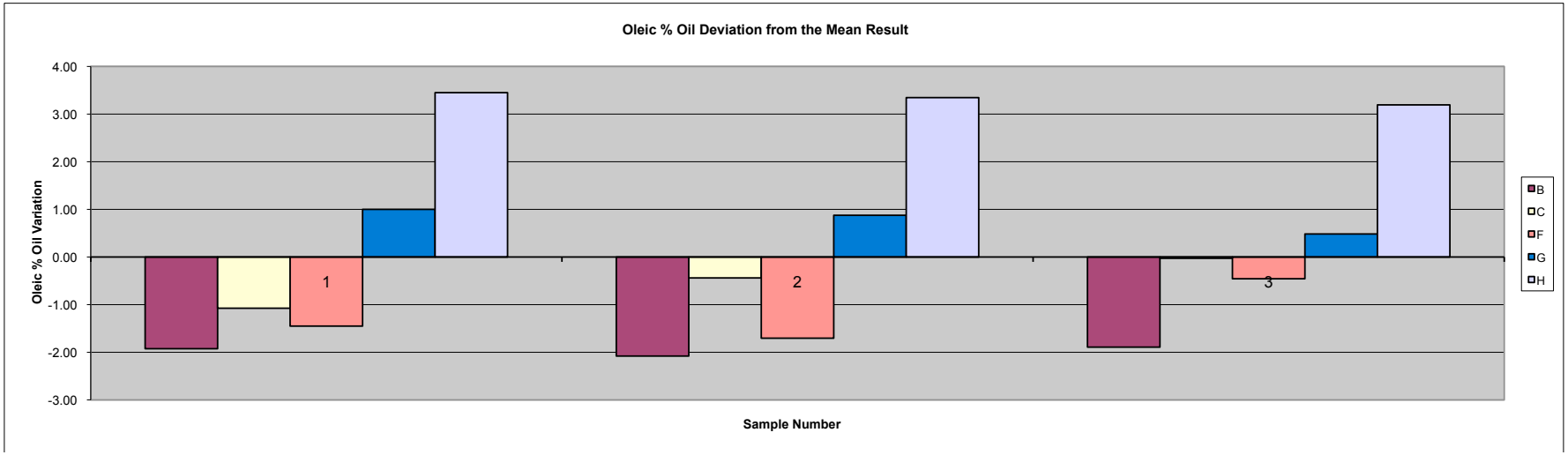
Oleic % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	57.58	-1.93	57.93	-2.08	63.17	-1.89	-1.97	1.97
C	58.43	-1.08	59.57	-0.44	65.03	-0.03	-0.51	0.51
D								
E								
F	58.05	-1.45	58.30	-1.70	64.60	-0.46	-1.20	1.20
G	60.50	1.00	60.88	0.88	65.54	0.48	0.79	0.79
H	62.95	3.45	63.35	3.35	68.25	3.19	3.33	3.33
I								
J								
K								
L								
M								
N								
MEAN	59.50		60.00		65.06			1.56
STDEV	2.23		2.20		0.47			





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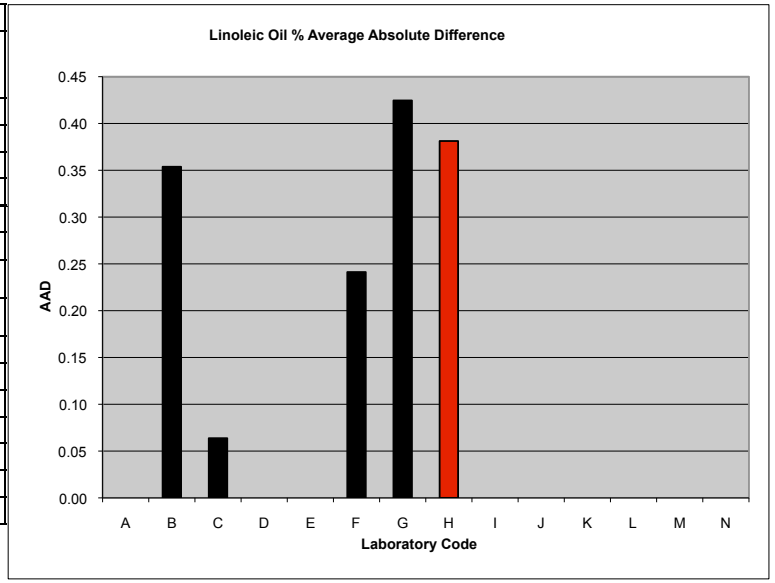
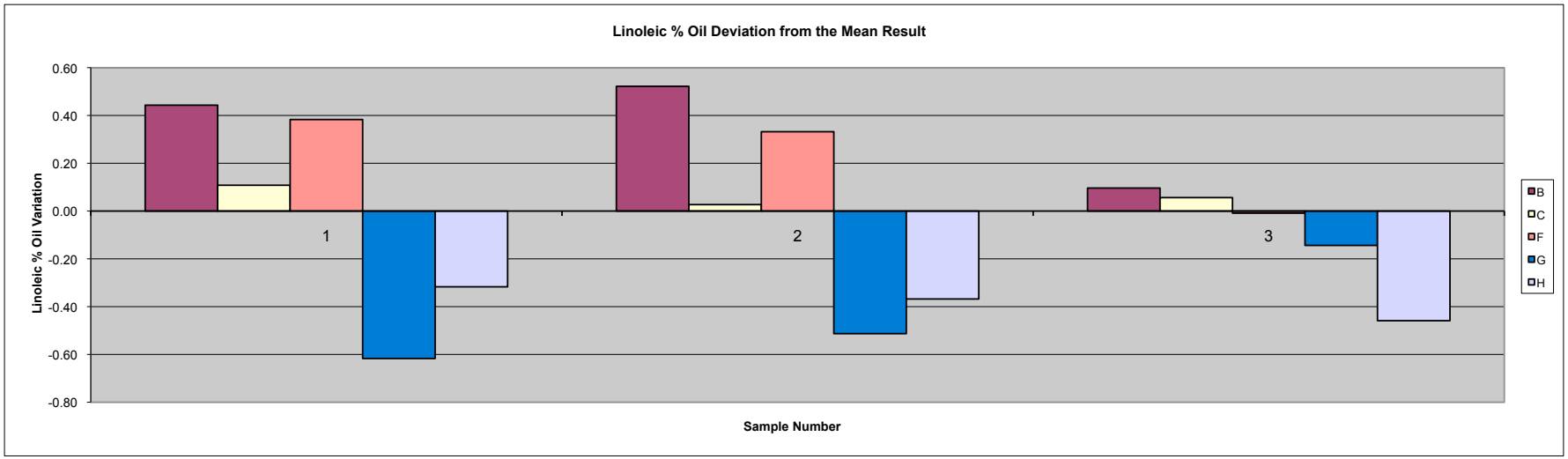
Linoleic % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	21.41	0.44	21.69	0.52	18.36	0.10	0.35	0.35
C	21.08	0.11	21.20	0.03	18.32	0.06	0.06	0.06
D								
E								
F	21.35	0.38	21.50	0.33	18.25	-0.01	0.24	0.24
G	20.35	-0.62	20.66	-0.51	18.12	-0.14	-0.42	0.42
H	20.65	-0.32	20.80	-0.37	17.80	-0.46	-0.38	0.38
I								
J								
K								
L								
M								
N								
MEAN	20.97		21.17		18.26			0.29
STDEV	0.46		0.44		0.11			





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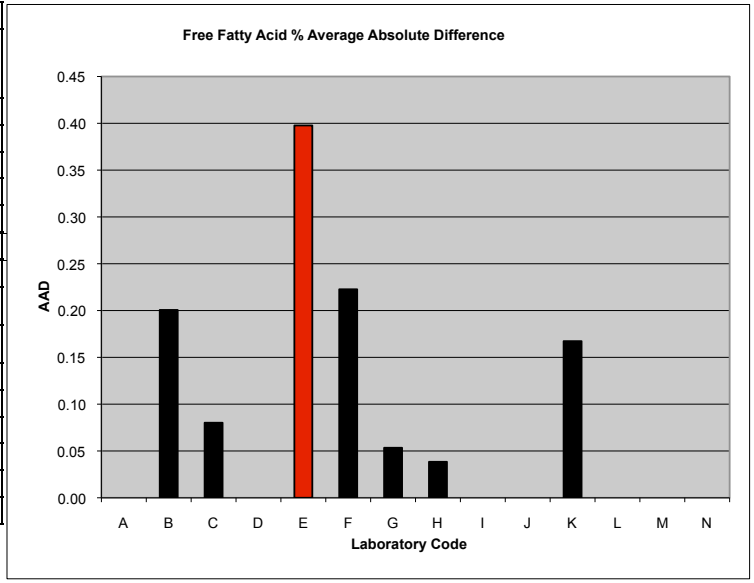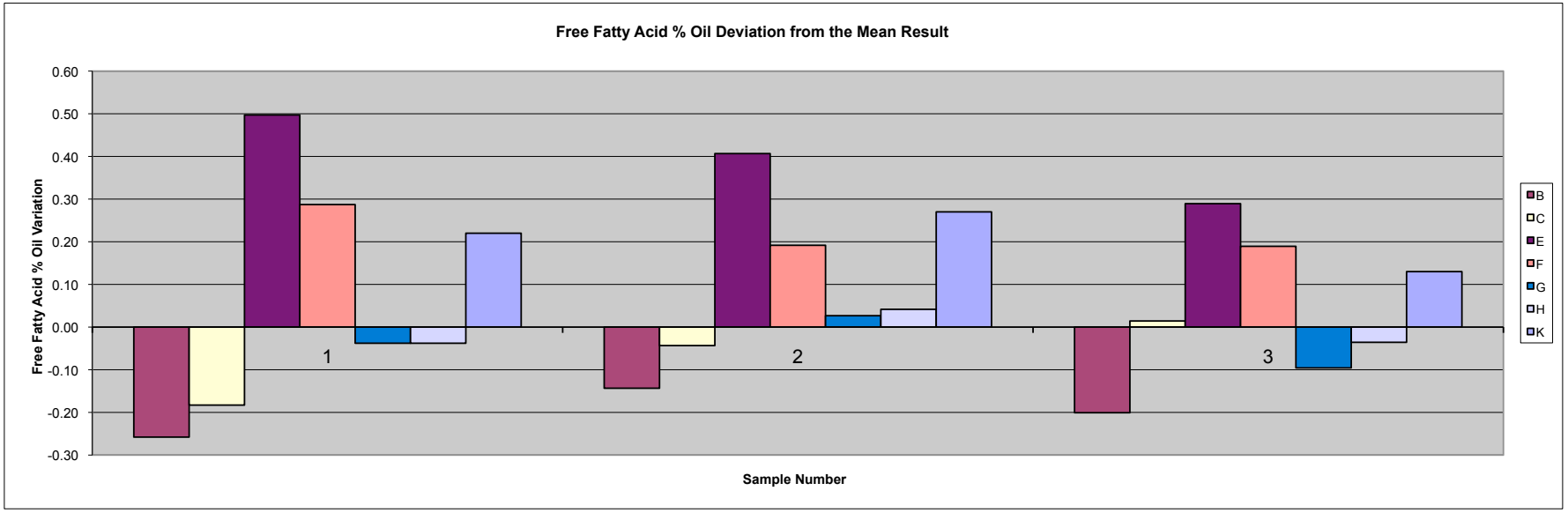
Free Fatty Acid % Oil Deviation from the Mean								
	Sample 1		Sample 2		Sample 3		Mean of Differences	Average Absolute Difference
Lab	Result	S1-Mean	Result	S2-Mean	Result	S3-Mean		
A								
B	0.23	-0.26	0.20	-0.14	0.09	-0.20	-0.20	0.20
C	0.31	-0.18	0.30	-0.04	0.31	0.01	-0.07	0.08
D								
E	0.99	0.50	0.75	0.41	0.58	0.29	0.40	0.40
F	0.78	0.29	0.54	0.19	0.48	0.19	0.22	0.22
G	0.45	-0.04	0.37	0.03	0.20	-0.10	-0.04	0.05
H	0.45	-0.04	0.39	0.04	0.26	-0.04	-0.01	0.04
I								
J								
K	0.22	-0.27	0.27	-0.07	0.13	-0.16	-0.17	0.17
L								
M								
N								
MEAN	0.49		0.34		0.29			0.17
STDEV	0.29		0.12		0.18